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Technology Cooking

Mary Trauner
ViDe

Georgia Institute of Technology

Fermilab
January 31, 2005

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Outline

- **My Background**
- **ViDe, SURA & Internet2 Commons**
- **Overview of the Videoconferencing Cookbook**
- **Draft outline for a Grid Cookbook**
- **Potential Collaborators**
- **Next Steps**

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My Background

- **29.5 Years at Georgia Tech in Academic and Research Computing Support**
 - 15 Years directed toward HPC
- **BA from Indiana University in Mathematics & Computer Science**
- **MS from Georgia Tech in Computer Science**
- **MS from Georgia Tech in Earth & Atmospheric Sciences**
- **Founding member of ViDe**
- **Member of Internet2 Commons Management Team**



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ViDe

- **Video Development Initiative**
 - Promotes the deployment of digital video in higher education and research environments through promotion and development of interoperable, standardized, and cost-effective technologies.
 - Video conferencing, digital rights management, and middleware for directory services
 - Vide.Net & Global Dialing Scheme (GDS)
 - Annual workshop on digital video
 - Collaboration and middleware testbed projects
 - Cookbooks and whitepapers

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SURA

- **Southeastern University Research Assoc.**
 - **60+ Universities in the US**
 - **Promote/incubate/catalyze Physics, Information Technologies, and Coastal Research**
 - **Jefferson Lab**
 - **SURANet**
 - **MAX and SOX Gigapops**
 - **SURA/AT&T Optical Network Partnership**
 - **HPC-Grid Initiatives Planning Group**



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Internet2 Commons

- **Planning and Recommendation**
- **H.323 Subscription Service**
- **Training for Site Coordinators**
- **Annual Megaconference**
- **Hosting and Vetting Services**
 - **Wave3 (SIP)**
 - **INSORS (Access Grid)**



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Why a VC Cookbook?

- VC dropped in price with IP availability
- There were few books or guides on VC
- We wanted to see more use of advanced video services on Internet2
- We wanted to collaborate across our region (and started a tradition of “Southern Cooking”)



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**A variety of
user-friendly
paths to the
information**



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Translations

- **Spanish**

Universidad Nacional Autónoma de México

- **Portuguese**

Universidade Federal do Rio Grande do Sul,
Brazil

Rede Nacional de Ensino e Pesquisa (RNP)

Extending the audience



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Uses of Videoconferencing

- **General Uses**
- **Specific Applications**
- **Case Studies**

A focus on “why?” before moving to “how?”



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Popular Technologies

- H.323
- VRVS
- MPEG
- Motion JPEG (MJPEG)
- Access Grid
- Web Clients
- Session Initiation Protocol (SIP)

**A balanced
technology
perspective**



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Emerging Technologies

- **Wireless and Satellite Video**
 - **Application and Data Sharing**
 - **Directory Services for**
- Videoconferencing**
- **Experimental Systems**

What the future holds; things to watch for



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Basic Requirements

- **Basic Components**
- **Tips for Selecting and Tuning your PC**
- **Testing Your System and Connection**
- **Add-on Components**

Choosing and testing the pieces



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Best Practices

- **Best Practices for the Audio and Video Environment**
- **Videoconferencing Etiquette**

How to look and sound your best



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Practical Examples

- H323 Endstation
- SIP Endstation
- Application Sharing & Data Collaboration

Isn't this easy?



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Network Matters

- **Network Fundamentals for the Videoconference**
 - **Network Address Translation (NAT)**
 - **Firewalls**
 - **Port Forwarding**
 - **DSL and Cable Modem**
 - **Solutions and Recommendations**
- Outlines how to deal with current network environments**



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Advanced Components

- Managing Videoconferencing Services
- Campus Deployment Issues
- ViDe.Net: An International Videoconferencing Network
- The ViDeNet Global Dialing Scheme (GDS)
- A Walk Through the ViDeNet H.350 Directory
- Pulling it all together: The Internet2 Commons

For the integrator: understanding user needs and deployment issues



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Related Topics

- **Developing a Productive Videoconferencing Room**
- **What About Multicast?**
- **Broadcasting, Archiving, and Reuse of Videoconferences Through Video Streaming**

Additional, related, and clarifying topics



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K-12 and Classroom Needs

- Introduction for Teachers
- Classroom Basics
- Educational and Human Factor Issues
- Guide for Selecting and Testing
- Preparation and Delivery
- Case Studies
- Links to K-12 and Classroom Resources

Specific user groups, extended audiences



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**Community,
resources,
acknowledgement,
and usage**



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Lessons Learned

- **Development, Revision - Cycle & Method**
- **Two Editors Work Best**
 - **Recruitment and nurturing**
 - **Site work**
 - **First edits**
- **Quality Control is Key**
- **One Year “Recovery” Period**
- **Funding for Revisions is Important**



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<http://www.videnet.gatech.edu/cookbook>



[cookbook.en](http://www.cookbook.en)

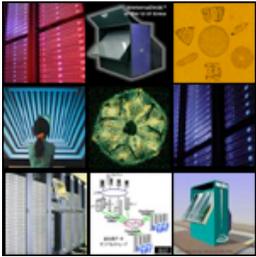


[cookbook.es](http://www.cookbook.es)



[cookbook.pt](http://www.cookbook.pt)

<http://www.vide.net>



The Grid Cookbook

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Why a Cookbook on Grids?

- **Using Grids still requires understanding**
- **We want to see more use of Grids**
- **Grid standards are still in infancy**
- **Books exist but are often too general or very complex**
- **We feel a lighter, friendlier, maintainable resource is needed**
- **We want to collaborate across Grid projects**

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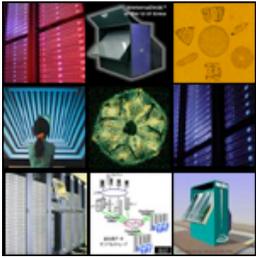
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Who is the Audience?

■ Beginners:

- Users/researchers
- Higher level administrators
- Those just curious

■ Programmers

■ New developers or Integrators

■ All of the above

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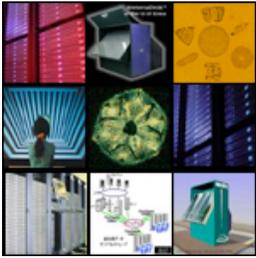
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Draft(y) Outline

■ Acknowledgements

■ Preface

- Why this guide
- Intended readers
- How to use

■ Introduction

- What is a grid
- Typical resources and services on a grid
- How grids work
- Security and grids (How secure is grid use)
- more

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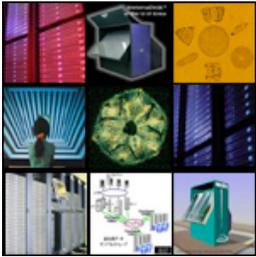
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Draft Outline (cont.)

■ What Can Grids Do for You?

- Payoffs via access, performance, speedup, collaboration
- Trends in computational and networked services
- more

■ Case Studies

- Overview of 3-6 grid technologies with discussion of applications using them

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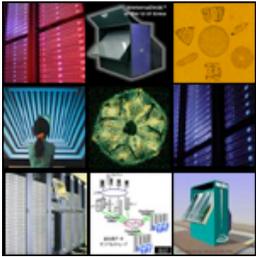
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■ Current Technology for Grids

- An overview of grid architecture(s), layers
- Grid domains (single and multiple)
- Middleware & service directories
- Certificates & certificate authorities
- Monitoring tools
- Networks and grids
- Data Management
- Heterogeneous versus homogenous grids
- Grid projects/software/tool kits (Overviews of specific projects like Globus, VDT, Gridlab, etc.)
- more

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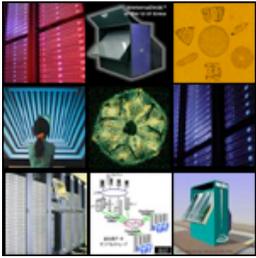
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■ Grid Standards & Emerging Technologies

- Where are the standards?
- Portals, schedulers [and metaschedulers]
- Certificate and registry services
- Grid in a box?
- Enhanced services: visualization engines, specialized instruments, etc.
- Projects/software/toolkits (Globus 4, webservices, etc.)
- more

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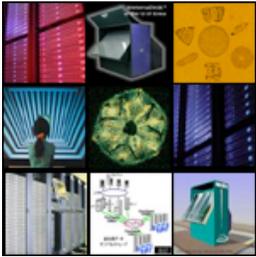
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- **Programming concepts and challenges**
 - **Access to and scheduling of resources**
 - **Security and security integration with existing authn/z structures**
 - **Data access and storage**
 - **Network communication**
 - **Usage/programming examples**
 - **more**

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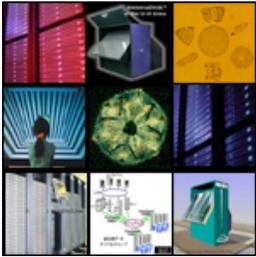
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- **Building or Joining a Grid**
 - **Determining the appropriate grid strategy**
 - **Designing your grid strategy**
 - **Choosing a system administrator/manpower requirements**
 - **Software repositories/distribution services**
 - **Installation**
 - **Management and monitoring**
 - **Security notes (certificates, firewall issues, patching, etc.)**
 - **more**

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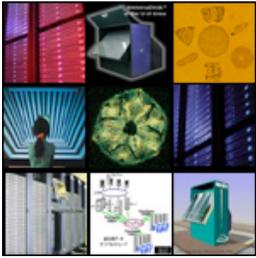
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Draft Outline (cont.)

- **Grid Installation Procedure(s)**
 - Simple basic grid example, and/or
 - Grid specific material

- **Grid Usage Example(s)**
 - For simple example grid, and/or
 - For specific grid solution

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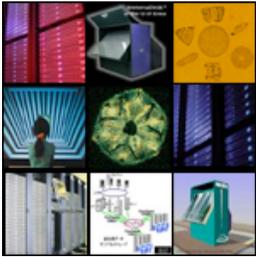
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Draft Outline (cont.)

■ Practical Tips, FAQ, other

- How long does it take to build a grid?
- Grids and AFS
- Grids across multiple OS platforms (aka. Image consistency)
- War stories from veterans
- more

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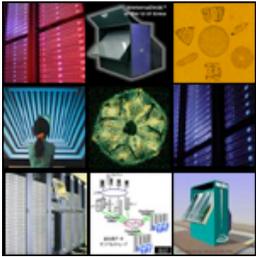
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Draft Outline (cont.)

■ **Glossary (or links to glossaries)**

■ **Appendices**

- **Related links**
 - **Resources**
 - **Organizations**
 - **Projects**
 - **Software distributions**
 - **Alliances and Application Communities**
- **Grid bulletin boards and mailing lists**
- **Benchmarks and performance**
- **Bibliography**
- **more**

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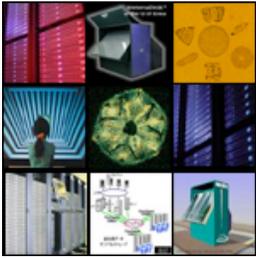
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Potential Collaborators

- **SURA**
- **Georgia Tech**
- **Open Science Grid**
- **CCT (LSU)**
- **University System of Georgia**
- **more**

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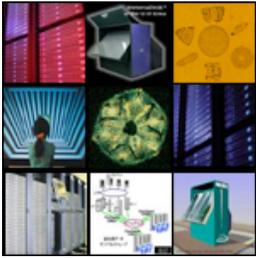
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Next Steps

- **Identify funding sources/programs**
- **Identify (first round) players**
- **Continue working outline**
- **Formulate structure, features, etc.**
- **Complete timetable**
- **Complete proposal**

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